HW#103: Quiz Review

Due Date: Wednesday, May 28th

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ TP: \_\_\_\_\_\_\_

**Failure to show work on all problems will result in a LaSalle.**

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| 1. Which answer best describes the transformation to the parent graph when it changes to  a. Vertical Shrink, Horizontal Shrink  b. Vertical Shrink, Horizontal Stretch  c. Vertical Stretch, Horizontal Shrink  d. Vertical Stretch, Horizontal Stretch | 2. Which answer describes the transformation to the parent graph when it changes to  a. Reflected across x-axis and a vertical shift up 5 units  b. Vertical Shift up 5 units  c. Reflected across x-axis and a vertical shift down 5 units  d. Vertical Shift down 5 units |
| 3. Describe the transformation to the parent graph when it changes to | 4. Describe the transformation when y = x2 – 1 is transformed into y = 3x2 + 5 |

Solve the following quadratic equations by taking the Square Root.

5. -10 + 5x2 = 170 6. 3x2 + 15 = 2x2 + 40

Solve the following quadratic equations by Factoring.

7. r2 + 3r - 40 = 0 8. –n2 + 6n + 40 = 0

9. 6p2 – 54p + 120 = 0 10. -5k2 + 55k – 140 = 0

Solve the following quadratic equations by using the Quadratic Formula

11. -5x2 + 8x - 3 = 0 12. 4x2 – 4x + 1 = 0

13. 3x2 = 9x + 12 14. 6x2 - 3x = 2

**VANG PROBLEMS #8 and #12 on a separate sheet of paper.**